LESSON 2.4

NAME _____ DATE _____

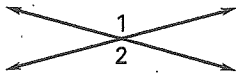
Practice A

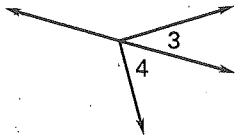
For use with pages 74–81

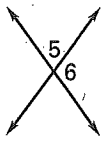
Complete the statement.

1. If two angles form a linear pair, then they are ___?___.
2. The Vertical Angles Theorem states that vertical angles are ___?___.

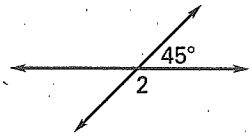
Determine whether the labeled angles are *vertical angles*, a *linear pair*, or *neither*.

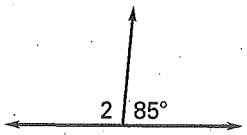
3. 

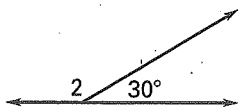
4. 

5. 

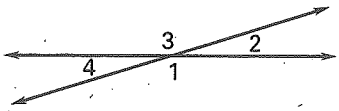
Use the Linear Pair Postulate to find the measure of $\angle 2$.

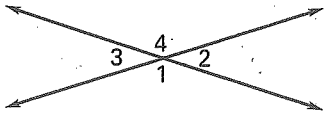
6. 

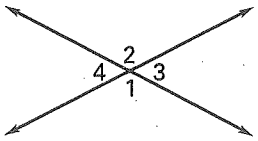
7. 

8. 

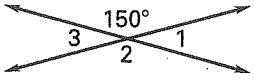
Use the Vertical Angles Theorem to find an angle that is congruent to $\angle 1$.

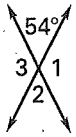
9. 

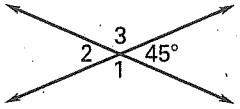
10. 

11. 

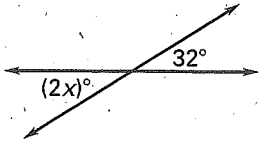
Use the Vertical Angles Theorem and the Linear Pair Postulate to find $m\angle 1$, $m\angle 2$, and $m\angle 3$.

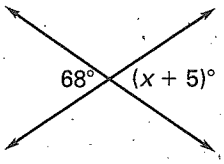
12. 

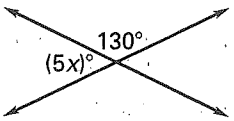
13. 

14. 

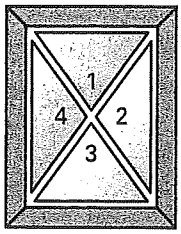
Find the value of x.

15. 

16. 

17. 

The window frame shown at the right forms angles 1, 2, 3, and 4. The measure of $\angle 1$ is 70°.



18. Name two pairs of vertical angles.
19. Find $m\angle 2$.
20. Find $m\angle 3$.
21. Find $m\angle 4$.

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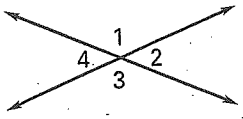
Practice B

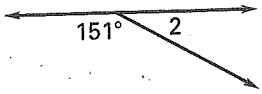
For use with pages 74–81

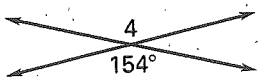
Use the figure at the right to complete the statement.

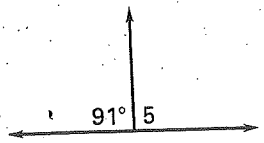


1. $\angle 1$ and ? are a linear pair, and so are $\angle 1$ and ?.
2. $\angle 2$ and ? are vertical angles.
3. If $m\angle 3 = 150°$, then $m\angle 2 =$?.
4. $\angle 4 \cong$?.

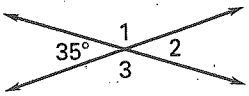
Find the measure of the numbered angle.

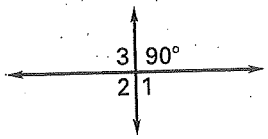
5. 

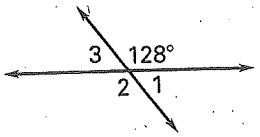
6. 

7. 

Find $m\angle 1$, $m\angle 2$, and $m\angle 3$.

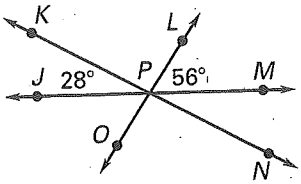
8. 

9. 

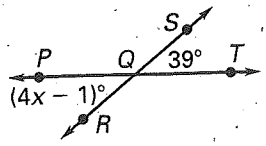
10. 

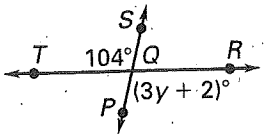
Use the diagram to complete the statement.

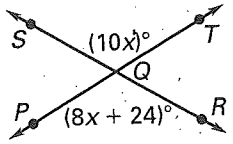
11. $m\angle KPL =$? °
12. $m\angle LPN =$? °
13. $m\angle MPN =$? °
14. $m\angle MPO =$? °



Find the value of the variable. Then use substitution to find $m\angle PQR$.

15. 

16. 

17. 

18. The United Kingdom flag can be represented by four intersecting lines that form eight angles. The horizontal and vertical lines are angle bisectors, and the measure of $\angle 1$ is 26.6°. Find the measures of the remaining angles.